

Auditing Test Report

Date: 14/02/2018

Lab No. : 40164-2

Client

Saudi Vitrified Clay Pipe Co.
P.O. Box 6415
Riyadh 11442
Kingdom of Saudi Arabia

Sampling Date:

23/01/2018

Testing Date:

13/02/2018

Auditing Purpose:

Testing of Vitrified Clay Fittings according to EN 295-1:2013

Size Description:

Nominal Size: Y- Junctions (DN 100mm up to and including DN 700 ES)
Jointing System: System F & C

Description of Sampling

Samples were collected randomly from the stock at the client's manufacturing works in Riyadh (Kingdom of Saudi Arabia) by the agent of the Suhaimi - Fugro

Underlying specification /description of the tests

- EN 295-1:2013 "Vitrified clay pipe systems for drains and sewers - Part 1: Requirements for pipes, fittings & joints"
EN 295-2:2013 "Vitrified clay pipe systems for drains and sewers - Part 2: Evaluation of conformity and sampling"
EN 295-3:2012 "Vitrified clay pipe systems for drains and sewers - Part 3: Test Methods"



Test Results of Y- junctions

Y-Junction Type	Internal Diameter (mm)		Length (Req. : Nominal length ^{+4%} _{-1%})		Branch Angle		Water Tightness (L/m ²)		Air Tightness (mm)		Joint Interchangeability (mm)		
	Req.	Actual	Nominal Length	Actual	Req.	Actual	Req.	Actual	Req.	Actual	Req.	Actual	
100 mm / 100 mm	≥ 96	100	450	450	45° ± 5	42	No visible leakage within 15 minutes under pressure 0.5 bar	No leak	Pressure drop shall not exceed 25 mm when subjected to 100 mm pressure during standard time	10	131 ± 1.5	131.7	
150 mm / 100 mm	≥ 146	151		455		49		No leak		15	186 ± 2.0	187	
200 SS / 100 mm	≥ 195	201	500	505		46		No leak		18	260 ± 0.5	260.3	
200 ES / 100 mm		200		506		41		No leak		2	275 ± 0.5	275.4	
200 SS / 150 mm	199	506		48		No leak		5		260 ± 0.5	260.4		
200 ES / 150 mm	198	501		47		No leak		17		275 ± 0.5	275.4		
250 SS / 150 mm	≥ 244	251		502		42		No leak		15	317.5 ± 0.5	317.5	
250 ES / 150 mm	249	502		45		No leak		15		341.5 ± 0.5	341.7		
300 SS / 150 mm	≥ 293	299		503		48		No leak		14	371.5 ± 0.5	371.4	
300 ES / 150 mm		301.5		505		43		No leak		2	398.5 ± 0.5	398.3	
350 ES / 150 mm	≥ 341	350.3		1000		505		41		No leak	8	459 ± 0.5	459.4
400 SS / 150 mm	≥ 390	400.2				1009		49		No leak	9	483.5 ± 0.5	483.6
400 ES / 150 mm		402	1008			47		No leak		4	515.5 ± 0.5	515.2	
450 ES / 150 mm	≥ 439	452	1005			48		No leak		10	579 ± 0.5	579.4	
500 SS / 150 mm	≥ 487	500	1000			42		No leak		12	605 ± 0.5	605.3	
500 ES / 150 mm		502.3	1001			40		No leak		11	637 ± 0.5	637.4	
600 ES / 150 mm	≥ 585	602	600			1005		42		No leak	15	758 ± 0.5	758.4
200 SS / 200 SS	≥ 195	202				605		48		No leak	8	260 ± 0.5	260.2
250 SS / 200 SS	≥ 244	253				605		48		No leak	7	317.5 ± 0.5	317.4
250 ES / 200 SS		252.3				602		49		No leak	6	341.5 ± 0.5	341.4
300 SS / 200 SS	≥ 293	301		604	42	No leak	15	371.5 ± 0.5	371.6				
300 ES / 200 SS		298.6		600	46	No leak	14	398.5 ± 0.5	398.4				
350 ES / 200 SS	≥ 341	352.2		605	47	No leak	4	459 ± 0.5	459.4				
400 SS / 200 SS	≥ 390	400.2		1008	48	No leak	14	483.5 ± 0.5	483.7				
400 ES / 200 SS		400.5		1005	49	No leak	10	515.5 ± 0.5	515.1				
450 ES / 200 SS	≥ 439	504		1000	41	No leak	2	579 ± 0.5	579.1				
500 SS / 200 SS	≥ 487	501	1000	42	No leak	13	605 ± 0.5	605.2					
500 ES / 200 SS		498.8	1007	42	No leak	2	637 ± 0.5	637.8					
600 ES / 200 SS	≥ 585	605	450	1006	45	No leak	4	758 ± 0.5	758				
100 mm / 100 mm	≥ 96	101.5		449	46	No leak	14	131 ± 1.5	132.1				
150 mm / 150 mm	≥ 146	149.9		500	502	47	No leak	15	186 ± 2.0	186.7			
200 SS / 200 SS	≥ 195	201		600	604	48	No leak	14	260 ± 0.5	260.4			
200 ES / 200 ES		203		612	613	42	No leak	18	275 ± 0.5	275.4			
250 SS / 250 SS	≥ 244	249		740	744	41	No leak	17	317.5 ± 0.5	317.2			
250 ES / 250 ES		252		800	802	45	No leak	19	341.5 ± 0.5	341.2			
300 SS / 300 SS	≥ 293	300		810	812	42	No leak	11	371.5 ± 0.5	371			
300 ES / 300 ES		302		900	902	43	No leak	10	398.5 ± 0.5	398.5			
350 ES / 350 ES	≥ 341	349		1000	1002	45	No leak	14	459 ± 0.5	459.1			
400 SS / 400 SS	≥ 390	402	1000	1007	45	No leak	16	483.5 ± 0.5	483.5				
400 ES / 400 ES		407	1100	1102	48	No leak	11	515.5 ± 0.5	515.5				
450 ES / 450 ES	≥ 439	451	1225	1226	48	No leak	10	579 ± 0.5	579.1				
500 SS / 500 SS	≥ 487	501	1350	1348	46	No leak	11	605 ± 0.5	605.1				
500 ES / 500 ES		505	1350	1349	42	No leak	22	637 ± 0.5	637.4				
600 ES / 600 ES	≥ 585	602	1575	1576	45	No leak	21	758 ± 0.5	758.4				
700 ES / 700 ES	≥ 682	709	2000	2005	48	No leak	19	871 ± 0.5	871.4				

FUGRO - SUHAIMI LTD

ANIL K MATHEW

